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AD-A034 195

SRDS TECHNICAL PROGRAM DOCUMENT, FISCAL YEAR 1977
ENGINEERING AND DEVELOPMENT APPROVED PROGRAMS

FEDERAL AVIATION ADMINISTRATION, WASHINGTON, D.C.

**OCTOBER 1976** 

SRDS SA195

TECHNICAL PROGRAM DOCUMENT

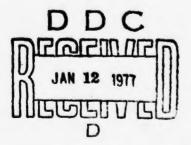


FISCAL YEAR 1977
ENGINEERING & DEVELOPMENT APPROVED PROGRAMS



OCTOBER 1976

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U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
Systems Research & Development Service
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## TECHNICAL PROGRAM DIRECTIVE

No. 77-01-01 through 21

SUBJECT: FY-77 SRDS Annual Technical Program

The enclosed FY-77 SRDS Annual Technical Program Document (TPD) establishes the Subprograms approved for implementation by the Director of SRDS. The implementation of these efforts is subject to the availability of resources.

This Annual Technical Program will be under continuing review and will be updated by means of Technical Program Directives as technical and other requirements dictate. Resumes in this Technical Program Document are structured according to the FAA Engineering and Development Programs 01 through 21.

DAVID J. SHEFTEL

Director Systems Research

and Development Service, ARD-1

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<sup>1/</sup> Fiscal Year

<sup>2/</sup> Sequence of Technical Program Directive Issuance, coded and controlled by ARD-50/54.

<sup>3/</sup> FAA ED Programs (per FAA-ED-00-C as amended).

## **Technical Report Documentation Page**

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## FOREWORD

This FY-77 Technical Program Document (TPD) contains Research and Technology Resumes which reflect Systems Research and Development Service, Federal Aviation Administration, approved subprograms. These resumes identify the technical objective, approach, milestones scheduled for accomplishment, end-item products, and FY-76 accomplishments, and source of requirements.

The TPD is structured according to the following 21 Engineering and Development Programs:

01	System	11	ATC Systems Command Center
02	Radar		Automation
03	Beacon	12	Enroute Control
04	Navigation	13	Flight Service Stations
05	Airborne Separation	14	Terminal/Tower Control
	Assurance	15	Weather
06	Communications	16	Technology*
07	Approach and Landing	17	Satellites
	Systems	18	Aircraft Safety
08	Airport/Airside	19	Aviation Medicine**
09	Airport/Landside*	20	Environment
10	Oceanic	21	Support

The fourth Arabic number in the Current Number/Code in block 10a of the Resume (i.e., 013-150) identifies the responsible lead division in SRDS, i.e.,

- 1 = ARD-100 Air Traffic Control Systems Division
- 2 = ARD-200 Communications Division
- 3 = ARD-300 Navigation Division
- ADD (OO Attract Distance
- 4 = ARD-400 Airport Division
- 5 = ARD-500 Aircraft and Noise Abatement Division
- 6 = ARD-60 Spectrum Analysis Staff
- 7 = ARD-700 Microwave Landing System Division

Comments and recommendations concerning this TPD may be directed to the Chief, Program Management Staff, ARD-50.

<sup>\*</sup> Transferred to OSEM

<sup>\*\*</sup> Not included

## CONTENTS

Program/Subprogram	Title
01	SYSTEM
012-151	Terminal Interface (WVAS, TAGS, TIPS, ARTS)
012-152	FSS/ARTCC Collocation Study and FSS/En Route Interface
012-153	IPC/ATC System Interface
013-150	In-Service ATC Simulations
013-151	Concepts Affecting Separation Standards
013-152	In-Service ATC Simulations
02	RADAR
021-241	Radar Sustaining Engineering
022-241	Improved Radar Subsystems
022-042	Hazardous Weather Detection
022-243	ARTS III/ASR Interface
023-241	Limited Surveillance Radar (LSR)
03	BEACON
031-241	ATCRBS Sustaining Engineering
032-241	ATCRBS Monitoring & Policing
033-241	ATCRBS Transmitter Site Equipment
034-241	Discrete Address Beacon System (DABS)
034-242	Intermittent Positive Control (IPC)
04	NAVIGATION
041-307	VOR Improved/New System Development
042-306	TACAN/DME Maintenance Sustaining Engineering
042-308	TACAN/DME Improved System Development
043-304	VLF Supplement of VOR/DME
043-311	Oceanic Navigation Systems
044-326	RNAV System Design
046-620	Navigation Spectrum Planning
047-309	Navigation System Accuracy and Performance
048-312	Operational Use of Loran-C in Aviation
049-330	Satellite Navigation Development
05	AIRBORNE SEPARATION ASSURANCE
051-241	Airborne Proximity Warning Indicator
051-242	Aircraft Visual Enhancement
052-241	Collision Avoidance Systems
06	COMMUNICATIONS
061-222	ATC Telecommunication Communications Standardization
062-221	Air/Ground Communication Facilities
063-221	Communication Switching and Control System Development

064-221	Ground/Ground Petricks and Switching
065-221	Centers Automated Communications System Control
066 221	Development
066-221 066-222	Communications Sustaining Engineering
000-222	Communications Improvements
07	APPROACH AND LANDING SYSTEMS
071-312	Visual Guidance Sustaining Engineering
071-313	ILS Sustaining Engineering
072-321	ILS Improvements
072-324	Visual Guidance Improvements
073-323	Category III Visual Guidance
075-725	Microwave Landing System (MLS)
076-311	Approach and Landing Altimetry
08	AIRPORT/AIRSIDE
081-431	Airport Safety Support System
081-461	Fog Dispersal
082-420	Airport Pavement
082-421	Airport Configuration
082-431	Runway Surface Traction
083-401	Airport Surface Traffic Control
084-451	Wake Vortex Avoidance System
004-431	wake voicex Avoidance System
09	AIRPORT/LANDSIDE (Transferred to OSEM)
10	OCEANIC
102-150	Oceanic Automation
	TO CHARMAC COLOURS CELEBRA AUTOMATICAL
11	ATC SYSTEMS COMMAND CENTER AUTOMATION
111-102	Central Flow Control
12	ENROUTE CONTROL
122-109	Software Technical Support
122-110	Program Planning and System Engineering
122-111	NAS Stage A Improvements (Model 3)
122-112	Upgraded Third ATC Function (Model 4)
122-113	Computer Capacity Recovery
122-114	Upgraded Third System Development (Model 5)
122-115	Interface Development
122-116	System Support Facility
122-117	UTG Redesign
124-111	En Route Sustaining Engineering
13	FLIGHT SERVICE STATIONS
131-440	FSS Engineering Development
132-442	System Enhancement
132-440	System Engineering
132-441	Baseline System Development

14	TERMINAL/TOWER CONTROL
142-120	Software Technical Support
142-121	Program Planning and System Engineering
142-171	ARTS III Expansion
142-172	Metering and Spaci
142-173	Tower Information Processing System
142-174	Conflict Alert and Resolution
142-175	ARTS II Enhancements
142-176	ATC Applications of Message Automation
142-177	Configuration and Procedures
142-179	Terminal Automated Test Facility
144-170	Terminal/Tower Sustaining Engineering
15	WEA'THER
151-451	Aviation Weather Devices
151-461	Aviation Weather Sustaining Engineering
151-462	Visibility and Ceiling
152-460	Sustaining Engineering for Weather Data
	Processing and Distribution
152-461	Improved Aviation Weather Forecasting
152-462	Integrated Aviation Weather System for NAS
153-451	Automated Weather Observation System
153-452	Semi-Automated Weather Data System
154-451	Wind Shear
16	TECHNOLOGY (Transferred to OSEM)
17	SATELLITES
171-252	Communications/Surveillance Design for Oceanic Satellite Systems
172-251	Oceanic/Conus ATC System Experiments
173-251	ATC Systems Integration
173-252	Space Segment
173-253	Ground Segment
173-254	Avionics
173-255	Test and Evaluation
18	AIRCRAFT SAFETY
181-520	Modified Fuel
181-521	Cabin Crash Safety
181-522	In-Flight Fire Safety
182-520	Aircraft Airworthiness
182-521	Propulsion Airworthiness
182-530	Flight Performance/Operation
184-520	General Aviation Flight Safety
184-521	General Aviation Crash Safety
184-530	General Aviation Pilot Competence
185-561	Explosive Sabotage Detection
19	AVIATION MEDICINE (Not included)

20	ENVIRONMENT
201-521	Aircraft Propulsion Systems Air Pollution
202-551	Source Noise Reduction
202-552	Operational Noise Reduction
202-553	Noise Evaluation and Response
202-554	Sonic Boom Research
204-551	Noise Emissions
21	SUPPORT
213-620	Spectrum Applications Engineering
213-621	Radar Facilities Spectrum Planning
213-622	Communications/Navigation Spectrum Planning
215-307	Reliability Support Activities
215-620	Electromagnetic Radiation Measurement
216-101	ATCS Selection and Performance Measurement
216-102	FAA Academy ATCS Training
216-103	ATC Facility ATCS Training
216-104	Upgraded ATC System Training
216-105	Productivity in Advance ATC Automation
217-150	National Flight Data Center Instrument Approach Procedure Automation

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26.A Accomp	lishments for FY-76:				
20.A Accomp	tisments for F1-70.				
.ARD-440	Task Study and Anal	ysis of co	llocated FSS/AF	TCC Facility	
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(202)42	26-9327		***		TYPE
I TECHNOLOGY UTILIZAT			- CCS-THINATION	2*4	
A REYWO'LS	NA			NA .	
Terminal, En R	toute, Controller, Pi	lot, DABS/	IPC, GAT II,	DSF, TATF, S	SF, Simulation
24. Technic	al Objective: Develor safety in the term	op ATC pro inal and e	cedures for u n route ATC (	ntilization of environments.	E IPC to
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	al Simulation te Simulation	•	/77		
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	ended Changes to ATC		/70		
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	lishments for FY-76:	are a	_,		
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I 013-150	. **		None		
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			INVESTIGATORS		
www. Joseph	P. O'Brien, ARD-150		PRINCIPALI ASSOCIATES		
	26-9327		TELI		TYPE:
T. TECHNOLOGY UTILIZA	NA		22. COORDINATION	NA	
. KEYWORDS					
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Provide op	Provide scenarios for erational support to search Center.	r live test: Ames for f	s of augmented light simulate	d wing Buffalo ST or and flight exp	OL. eriments
26. <u>Milestones</u>	Scheduled for Accom	olishment:		· .	
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	ompleted on Fuel Option			8/7	
26A. Accomplis	hmenes for FY-76:				
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	Washington, D.C. 20591			•	
			INVESTIGATORS PRINCIPAL:		
EAP, INDIV.:	L. Wuebker, ARD-150 (202)426-9327		ALECCIATES		
EL:	(202)420-9327		TELI		TYPE: .
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Optimi	ize Concepts for Reduced Terr	minal Radar	Separation S	tandards	
26.	environments. Special Air validated in a test environ sequencing, and airport six validated concept document. Milestones Scheduled for A	nment. Amo ze fix rela s for termi	ng these are: tionships. T nal radar sep	aircraft speed, he results will	class, provide
20.	Collection of Speed, Class			1	2/76
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26.A	Accomplishments for FY-76:				
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	gton, D.C. 20591				
MERCA INDIV.	ph P. O'Brien, AKU-15	0	PAINCIPAL: ASSOCIATE:		
	426-9327		TELI		TYPE
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25. Approx requir respon	6 week simulations each ch: In-house SRDS and red, will be used to example analysis and reports	i NAFEC res amine ATC s and perfor	imulation requ m/or direct ne	irements rece	ived, to provide
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	ic vs Dynamic Simulati ule Simulations as Req				9/76 Continuous
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27. Source of	R quirement SRDS Fund	ctional Sta	itemen <b>t</b> i.		
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ruor Kent	eth E. Coonley, ARD-24	13	PRINCIPALI AMOCIATE:		
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KEYWORK	Wh		<u> </u>	NA	
	monitoring, Radar, Stat	istical de	tection. West	her analysis	
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Approach: Stest radar n	cated by analyses, to saystems.  IRDS, with contractor a	and NAFEC sonsure that	upport, will the radars a	(a) develop,	procure, and within
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202-426-8576		AMBOCIATE:		TYPE:
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RA  STATES W. CONTRACT/SHART  RA  THE PRAY STATES W. Washington, D. C. 20591  TECHNOLOGY UTALIATED RA  REGARD, Pulse doppler, Clutter, Micro-programmable processor, Digital filter  Redar, Pulse doppler, Clutter, Micro-programmable processor.  Technical Objective: Develop an advanced radar processor which will greatly improvible radar detection capability in all adverse radar clutter environments and preser a target message output virtually free of false alarms.  Approach: SRDS, with contractor and NAFEC support, will provide for the development at a target message output virtually free of false alarms.  Approach: SRDS, with contractor and NAFEC support, will provide for the development test, and evaluation of a Moving Target Detector (MTD) for terminal and en route radar systems. The MTD is an advanced radar signal processor that provides greatly improved detection of aircraft in the presence of ground and precipitation clutter and also greatly improved radar tracking capability for automated systems.  Milestones Scheduled for Accomplishment:  MTD-II terminal and en route contract award  MTD-II terminal pate ackage Complete  26A. Accomplishments FY-76:  Test and evaluation of MTD-I breadboard completed  Title inappropriate since effort expanded beyond ARTS III - suggest revision of title and the processor of Redulter inappropriate since effort expanded beyond ARTS III - suggest revision of title Moving Target Detector (MTD).  Source of Redulterment  Ago. Precedence  Blank	ARTS III/ASR INTERFACE*				
FAA/SRIS  FAA/SR			IS. START DATE	14. CRIT. COMPL. DATE	16. PUMDING AGENCY
RA STANSON TO Second Street, S. W. Washington, D. C. 20591  Washington, D. C. 20591  Kenneth E. Coonley, ARD-243  202-426-8576  Radar, Pulse doppler, Clutter, Micro-programmable processor,  Technical Objective: Develop an advanced radar processor which will greatly improve the radar detection capability in all adverse radar clutter environments and preser a target message output virtually free of false alarms.  Approach: SRDS, with contractor and NAFEC support, will provide for the development at the radar devaluation of a Moving Target Detector (MTD) for terminal and en route readar signal processor that provides greatly improved detection of aircraft in the presence of ground and precipitation clutter and also greatly improved radar tracking capability for automated systems.  Milestones Scheduled for Accomplishment:  MID-II breadbroard TRE Final Report issued  MID-II terminal and en route contract award  MID-II trachical Data Package Complete  MID-II Technical Data Package Complete  26A. Accomplishments FY-76:  Test and evaluation of MID-I breadboard completed  MID-II Target Detector (MTD).  Nource of Redultement  Local Blank  Blank  30. Precedence  Blank	THE PARTY OF THE P				FAA
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Martin Natchipolsky, ARD-241  (202) 426-8563  ***********************************
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(202) 426-8563  ***ECHMACLORY UTILITATION NA  ***RETURN NA  **********************************
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and impro	SRDS with NAFEC ave systems and equi and lower cost instance neering assistance	ipment in tallation	order to p is, and (2)	rovide safer, provide crit:	, more
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Instruments Landing S	ystem, ILS, GI	lide Slope,	Localizer, Ca	t I-III
Technical Objective: Resacceptance perf. level eq'd in the dev, and p	of the Cat I-	III ILS; pro	ovide technic	al data
Approach: SRDS w/NAFEC analyze tech. probs. the the ILS; dev. & test "in probls; prepare reports system stds.	at affect the lixes" for cor	recting equi	erational cap ip., mon., or	ability of siting
Milestones Scheduled for Cont. rapid response to at NAFEC. 10/77 Cont. NBS certification maintain Primary Standa Eval. SS ILS at NAFEC install & assist in control of the c	spec. fld. p n/calibration ard. Gather GS for lighting/t	of ILS Mod. snow data a	at fld, sites ixes" & maint	d update/ . 10/77 . move
Accomplishments-FY-76: Completed first phase of R&D monitor mods. for sevaluation of auto RTT & RM Regions. NBS prim	snow effects a . GS environme	it several ne ental data c	orthern GS si ollection fro	tes, Initial
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\*Joint program with USAF provided funds are available. | 081-461

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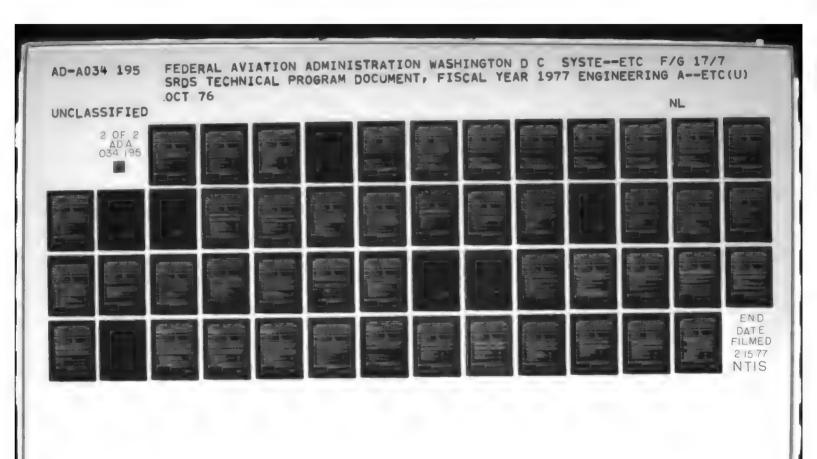
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RESEARCH AND TECHNOLOGY RESUME MA 40 trm. . THE REPORT OF Transpired TANK CONTAINS SALES OF SERVICE U Subprogram 10/1/76 151-465 Ш 153-451 AUTOMATED WEATHER OBSERVATION SYSTEM THE REST OF THE PERSON ASSESSED. FAA/SEDS 2100 Second St., S.W. Washington, D.C. 20591 Warren F. Ottinger, ARD-452 (202) 426-8427 VECHNEL OUT UTILIZATION MA EA Lidar, Automation, Weather Observation Technical Objective: To design, test and evaluate a fully automated eviation weather observation system. The final configuration will provide a complete weather observation previously provided by an PSS and is intended for implementation at consolidated FSS locations where a requirement continues for a complete weather · observation. Approach: Under an interagency agreement the National Weather Service (NWS) is developing the automated system for the FAA. MWS has contracted with industry to fabricate, install and test the prototype system. SLDS will thes relocate system to Salisbury, MD, for operational test and evaluation for one year and then turn system over to operating Services as the first article AV-AVOS. Milestones Scheduled for Accomplishment: Cloud algorithm verification complete. 11,76 6/77 Prototype field test completed. 7/77 Technical data package delivered to AAF. 8,78 Operational test complete - system to operating Services. Accomplishments for FY-76: Development system installed at Sterling, VA. First cut ceiling and visibility algorithms completed. Development system operational demonstrations conducted. 7. Source of Requirement rogram Plan 19-1 Blank 29. Blank 30. Precedence Blank 31. Relevant Project Code Items I to 26 I dentical to

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T. TECHNOLOGY UTILIZATION		22. COORDINATION	·	TYPE:
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Air Traffic Control, Personnel 1	measurements,	reriormance	19573	
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.CPM Data Bank Completed	10H	•	7 <i>7</i> 77	
CPM Field Validations Comp			ŹΫ	
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Academy Adaptation Specific		ted 8/	77	
		ted 8/		
Academy Adaptation Specific	ort Completed	ted 8/	<b>77</b> 77	
Academy Adaptation Specific Field Validation Final Rep Accomplishments for FY-76: CPM En Route Experiments Co	ompleted D-21-3	28.	77 77 76	

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B. never	-	NA .		1	NA	
		Control, Simulation,	Training.	Academy, Tower		
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26.A	- Accomp	lishments for FY-76				
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George (202	ge A. Scott, ARD-150 ) 426-9327		PRINCIPAL: ASSOCIATE: YEL:		TYPE:
II. TECHNOLOGY UTIL	NA	*	ZZ. COORDINATION	. NA	
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Pilo NAFI Faci Pilo ARTS	ot Console Engineering C Pilot Console Evalu Clity Training Softwar ot Console Technical D S II Training Cost/Ben S II Training Function	Model Devel ation Comple e Enhancemen ata Package, efit Analys	lopment ete nt Studies /Specification is	11/76 1/77 1/77 3/77 3/77 9/77	
26.A Accom	olishments for FY-76				
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2100	and Street, S.W. gton, D.C. 20591		ADDRESS Kenda	11 Square idge Mass. O	2142
Li (202)	A. Šcott , ARD-150 426-9327		ASSOCIATE Robe	ort Wiseman 37-2014	Two.
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	d Fast Time Simulation			10/76	
.Vali	date Accuracy of Model lop Automatic Processi	at Termin	al Sites d Data	9/77	
	lishments for FY-76:	or rier		.,,,,,	
Comp	lete Development of Fa ver Fast-Time En Route	st-Time Si Model to	mulation SRDS	7/76 9/76	
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National Fli	ght Data Center - Ins	trument App	roach Procedu	re Automation			
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	cond Street, S.W.		2). PERFORMING ORDA MANU: ADOREM	MITATION			
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Natio	ument Approach Proced nal Flight Data Cente	ure, Automa	ted Validation	n, Data Manageme	nt System,		
subsyst require 1.	required interface. United States Air F documentation of th	to design, port to pro aluation. ey to assis orce to ass	develop, and vide the hards Interagency so t in the defin ist in the soi for Terminal I	demonstrate the ware and compute apport as follow mition and design	r system mi n of the n and		
	nes Scheduled for Acc						
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	ishments for FY-76:						
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27. Source of	Requirement FAA-ED-1	1-1	28.				
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